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(54) Title: WATER SOLUBLE SACHET CONTAINING HARD SURFACE CLEANER

(57) Abstract: The invention relates to a water soluble container which containing concentrate composition useful for hard surface disinfecting and cleaning comprising: (a) at least one cationic surfactant having germicidal properties; (b) at least one non-ionic surfactant; (c) at least one organic solvent having a solubility in water of at least 4% wt.; (d) optionally, at least one alkanolamine; (e) optionally, at least one polyethylene glycol; and (f) optionally, up to about 10% wt. of one or more conventional additives selected from coloring agents, fragrances and fragrance solubilizers, viscosity modifying agents, other surfactants, other antimicrobial/germicidal agents, pH adjusting agents and pH buffers including organic and inorganic salts, optical brighteners, opacifying agents, hydrotropes, antifoaming agents, enzymes, anti-spotting agents, anti-oxidants, preservatives, and anti-corrosion agents; wherein said concentrate composition contains no more than 20% wt. water, and desirably contains less. The water soluble containers can be made by thermoforming or injection molding. Methods for the manufacture of such containers containing the concentrate compositions and methods for the treatment of hard surfaces using the concentrate compositions and especially aqueous dilutions of the concentrate compositions are disclosed.



a. classification of subject matter IPC 7 C11D1/835 C11D3/43 C11D17/04 C1103/48 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 Clid Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 6 136 776 A (RUCK J BARRY 1,3,8,9, 24 October 2000 (2000-10-24) 14-17, 21,22 claims; example 15 Α EP 1 120 459 A (YPLON S A) 1 August 2001 (2001-08-01) paragraph '0020! - paragraph '0021!; claims P,A GB 2 376 238 A (RECKITT BENCKISER INC) 1-22 11 December 2002 (2002-12-11) page 14, last paragraph; claims; examples X Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "O" document referring to an oral disclosure, use, exhibition or other means *P" document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the International search Date of mailing of the international search report 29 January 2004 19/02/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo ni, Fax: (+31–70) 340–3016 Grittern, A

INTERNA NAL SEARCH REPORT

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PCT/GB 03/03707	٠.

Patent docu cited in search		Publication date	-	Patent family member(s)		Publication date
US 61367	76 A	24-10-2000	US	. 6037319	A	14-03-2000
EP 11204	59 A	01-08-2001	CA	2365169	A1	14-06-2003
			GB	2358191	A .B	18-07-2001
••	•	· · ·	US	2003148908	A1	07-08-2003
			. DE	1120459	T1	17-10-2002
•	1		EP	1120459	A1	01-08-2001
•		•	ES	2176133	T1	01-12-2002
	·	·	FR	2796651	Αİ	26-01-2001
GB 23762	38 A .	11-12-2002	MO	02099028	A1	12-12-2002